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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
APPLICATION NO.	PILENO DATE	FIRST NAMED INVENTOR	ATTORNET DOCKET NO.	CONFIRMATION NO.	
10/587,978	08/03/2006	Sang-mun Jeong	29137.165.00	7092	
30827 7590 02/03/2009 MCKENNA LONG & ALDRIDGE LLP		EXAMINER			
1900 K STREET, NW			WOOD, ELIZABETH D		
WASHINGTO	N, DC 20006		ART UNIT PAPER NUMBER		
			1793		
			MAIL DATE	DELIVERY MODE	
			02/03/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/587,978	JEONG ET AL.	
Examiner	Art Unit	
Elizabeth D. Wood	1793	

patent term adjustment,		

		Elizabeth D. Wood	1793			
	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence ad	dress		
Period for	or Reply					
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MENUTE IS LONGER, FROM THE MAILING DA missions of time may be available under the provisions of 37 CFR 1.13 SUC (5) MCNTHS from the making date of this communication. The reply received by the College of the reply dependent of the provision of	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. iely filed the mailing date of this c (35 U.S.C. § 133).	,		
Status						
1)	Responsive to communication(s) filed on	-				
2a)□	This action is FINAL. 2b)⊠ This	action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
41127	Claim(s) 1-14 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdraw	n from consideration				
	Claim(s) is/are allowed.					
	Claim(s) 1-14 is/are rejected.					
	Claim(s) is/are objected to.					
	Claim(s) are subject to restriction and/or	election requirement.				
-	.,	·				
Applicat	ion Papers					
9)□	The specification is objected to by the Examiner	:				
10)	The drawing(s) filed on is/are: a) acce	pted or b) objected to by the E	Examiner.			
	Applicant may not request that any objection to the o	Irawing(s) be held in abeyance. See	37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)	The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form P7	O-152.		
Priority (under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
	1. Certified copies of the priority documents	have been received.				
	2. Certified copies of the priority documents	have been received in Application	on No			
	3. Copies of the certified copies of the priori	ty documents have been receive	d in this National	Stage		
	application from the International Bureau	(PCT Rule 17.2(a)).				
* 5	See the attached detailed Office action for a list of	of the certified copies not receive	d.			
Attachmen	t(s)					

- 1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SE/DE)
 - Paper No(s)/Mail Date 9/26/06.

- Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application
- 6) Other: ___

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Specification

The examiner has not checked the specification to the extent necessary to determine the presence of **all** possible minor errors (grammatical, typographical and idiomatic). Cooperation of the applicant(s) is requested in correcting any errors of which applicant(s) may become aware of in the specification, in the claims and in any future amendment(s) that applicant(s) may file.

Applicant(s) is also requested to complete the status of any copending applications referred to in the specification by their Attorney Docket Number or Application Serial Number, if any.

The status of the parent application(s) and/or any other application(s) crossreferenced to this application, if **any**, should be updated in a timely manner.

Information Disclosure Statement

Any documents not considered on the information disclosure statement are not accompanied by an English language translation. Regarding any documents cited in any related proceedings, if they are not provided and listed on a PTO-1449, they will not be considered by the office.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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Claims 8-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims are indefinite in the recitation of "adding" in step "b". As written, it implies that zeolite and water are added to the container in this step, when a reading of the specification indicates that this takes place in step "c". Accordingly, ambiguity is introduced. Use of the terms "mixing" or "combining" may serve to obviate this rejection.

Claim Objections

Claims 3 and 9 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s) or amend the claim(s) to place the claim(s) in proper dependent form. These claims recite limitations directed to the method of use of the material, which fails to limit the composition and method under examination.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made. Application/Control Number: 10/587,978

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The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 3.833.499 to Egan et al.

The instantly claimed invention is directed to a catalyst composition and method for the production thereof wherein a zeolite material is supported in the pores of a metal exide

Egan et al. are relied on for the teaching that compositions containing zeolite material combined with inorganic oxide are known in the art. Egan et al. disclose such cracking catalysts and teach impregnation of the zeolite material (or zeolite metal

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material) into a metal oxide support material. Although the reference does not specifically state that the zeolite is fixed in the pores of the support, it is considered that it is intuitive that when one applies the disclosed technique to the impregnation of a support material with a zeolite, that the zeolite will deposit and thus be "fixed in the pores" of the support. Indeed, this is the very purpose of making a catalyst by employing the incipient wetness technique. Accordingly, the instant cliams would have been obvious to the skilled artisan at the time the invention was made.

With respect to limitations regarding the shape of the catalyst, it is considered that such is a matter of design choice to the engineer practicing in this field as such is dependent upon process and reactor considerations.

Regarding the method of making the catalyst, it is considered that any known technique of supporting a material on a support would have been obvious to the skilled artisans. As it is well known that vacuum impregnation facilitates the application of catalytic substances onto carriers (see, for example, US 3,487,011), it is considered that selection of such technique would have been within the skill of the artisan, absent some unexpected results. Moreover, it is further considered that in the instant situation, it would have been expected that the catalyst would be fixed into the pores by selection of such technique, or any equivalent technique such as immersion, dip or incipient wetness. In fact, one of the primary purposes for applying catalytic material to a porous material is specifically to distribute it across the porous surface area to increase the active surface area of the catalytic material that will contact the intended feedstock. See particularly columns 3-4 and the examples.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant is advised that due to the extreme breadth of the claims under examination in this application, All of the prior art of record is highly pertinent and should be kept in mind when presenting amendments and arguments.

Applicants are advised that any evidence to be provided under 37 CFR 1.131 or 1.132 and any amendments to the claims and specification should be submitted prior to final rejection to be considered timely. It is anticipated that the next office action will be a final rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth D. Wood whose telephone number is 571-272-1377. The examiner can normally be reached on M-F, 5:30-2:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Elizabeth D. Wood/ Primary Examiner, Art Unit 1793

/E. D. W./ Primary Examiner, Art Unit 1793